



CHG/M  
5/1/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Mitsuaki OSHIMA et al.

Serial No. 09/680,177

Filed October 5, 2000

COMMUNICATION SYSTEM

RECEIVED

APR 28 2003

Technology Center 2600

Confirmation No. 6208

Docket No. 2000\_1391

Group Art Unit 2634

Examiner A. Le

THE COMMISSIONER IS AUTHORIZED  
TO PAY ANY DEFICIENCY IN THE  
FEE FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 28-0975

**LETTER RE PROPOSED DRAWING AMENDMENTS**

Assistant Commissioner for Patents,  
Washington, D.C.

Sir:

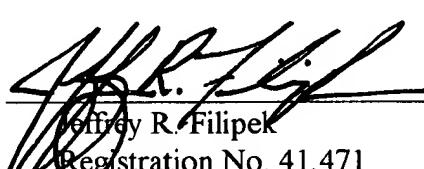
Enclosed herewith is a photocopy of Figs. 2, 10, 17, 29, 48, 65, 67, 93, 112, 131, 138, 144, and 169 highlighted to indicate proposed drawing amendments thereto.

The Examiner is requested to approve such proposed drawing amendments. Formal drawings incorporating such amendments are filed herewith.

Respectfully submitted,

Mitsuaki OSHIMA et al.

By

  
Jeffrey R. Filipek  
Registration No. 41,471  
Attorney for Patentees

JRF/fs  
Washington, D.C. 20006-1021  
Telephone (202) 721-8200  
Facsimile (202) 721-8250  
April 24, 2003

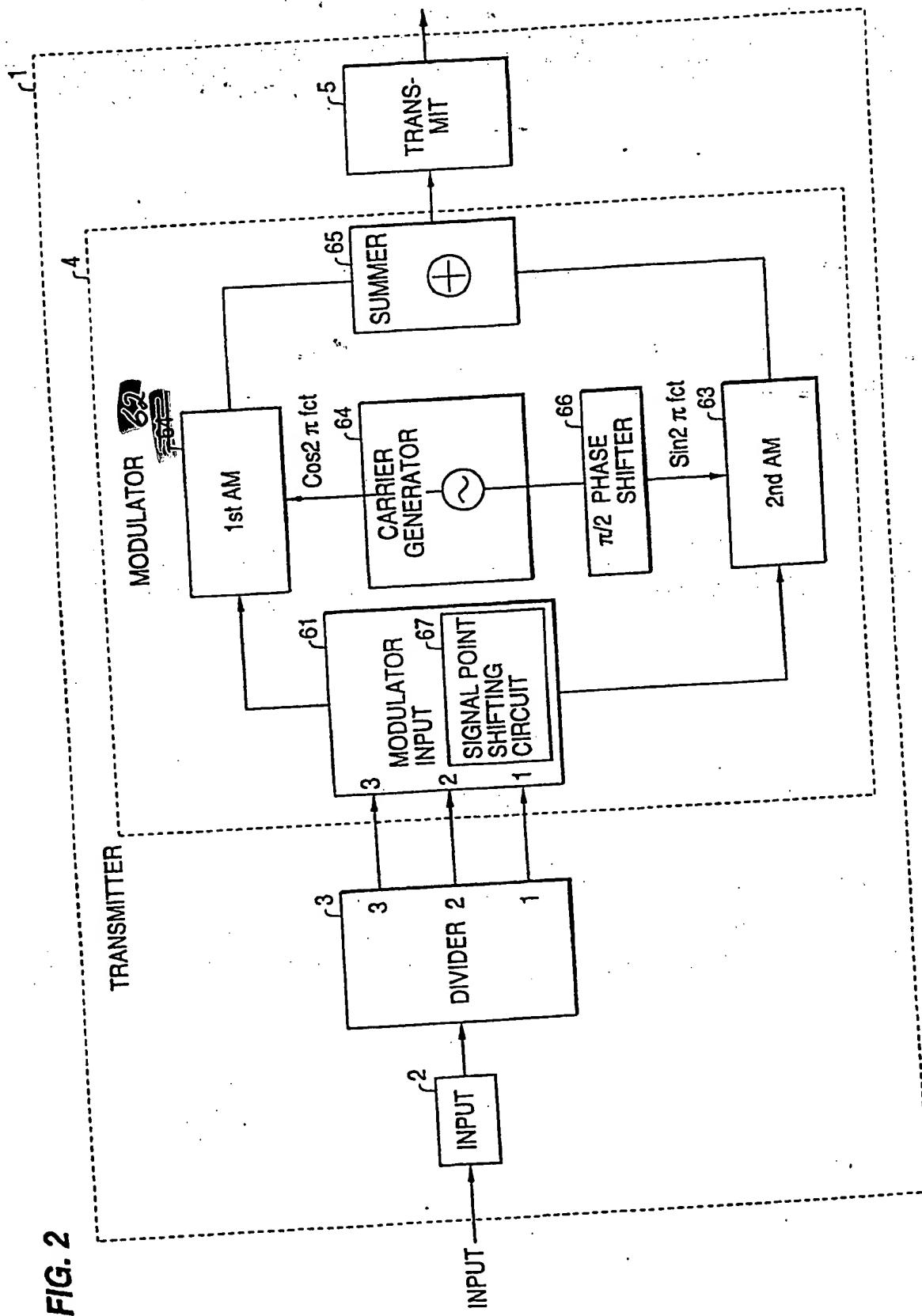
O I P E  
APR 24 2003  
PATENT & TRADEMARK OFFICE

U.S. Patent

Feb. 4, 1997

Sheet 2 of 178

5,600,672





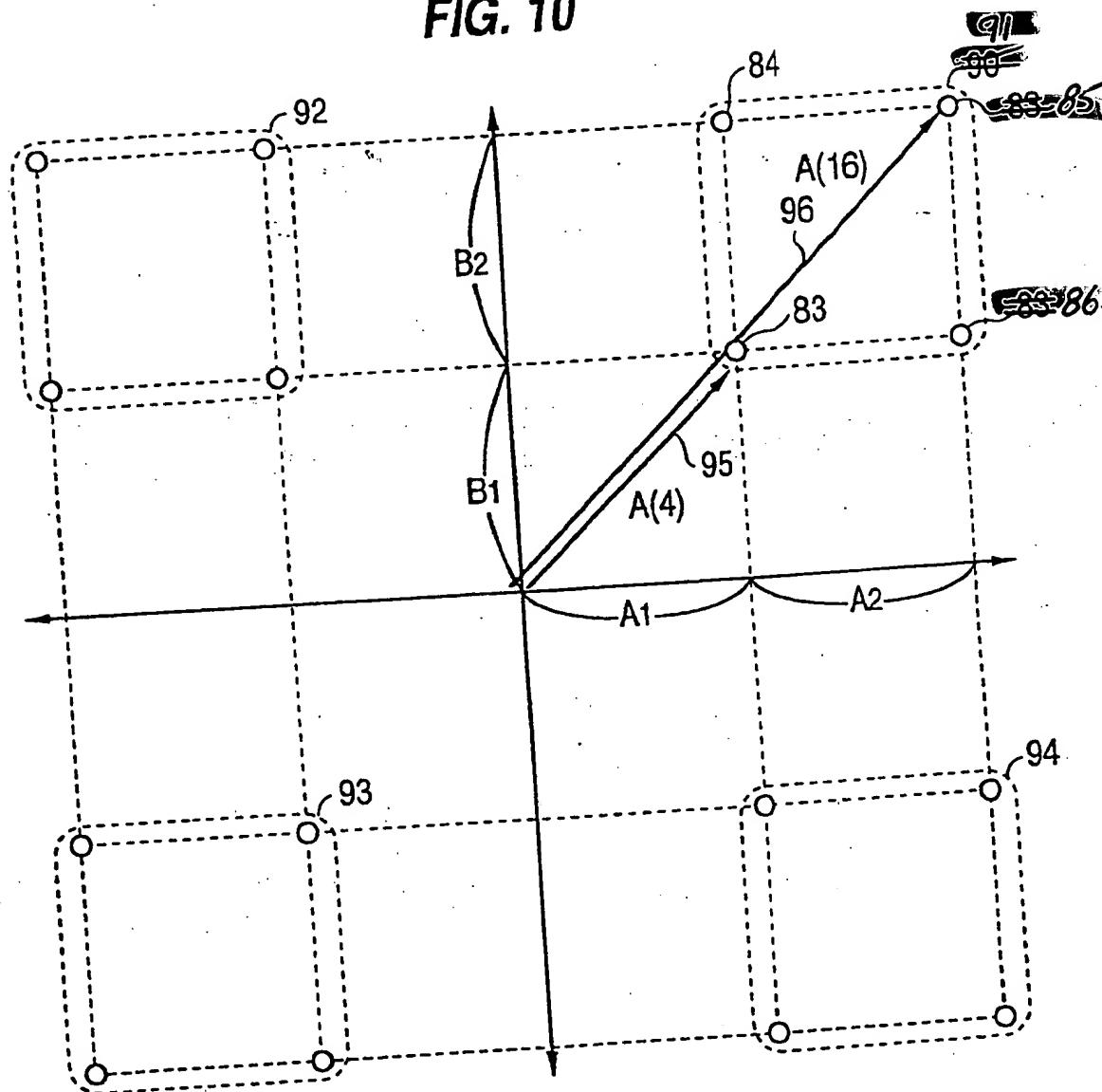
U.S. Patent

Feb. 4, 1997

Sheet 10 of 178

5,600,672

FIG. 10



APR 24 2003

U.S. Patent

Feb. 4, 1997

Sheet 17 of 178

5,600,672

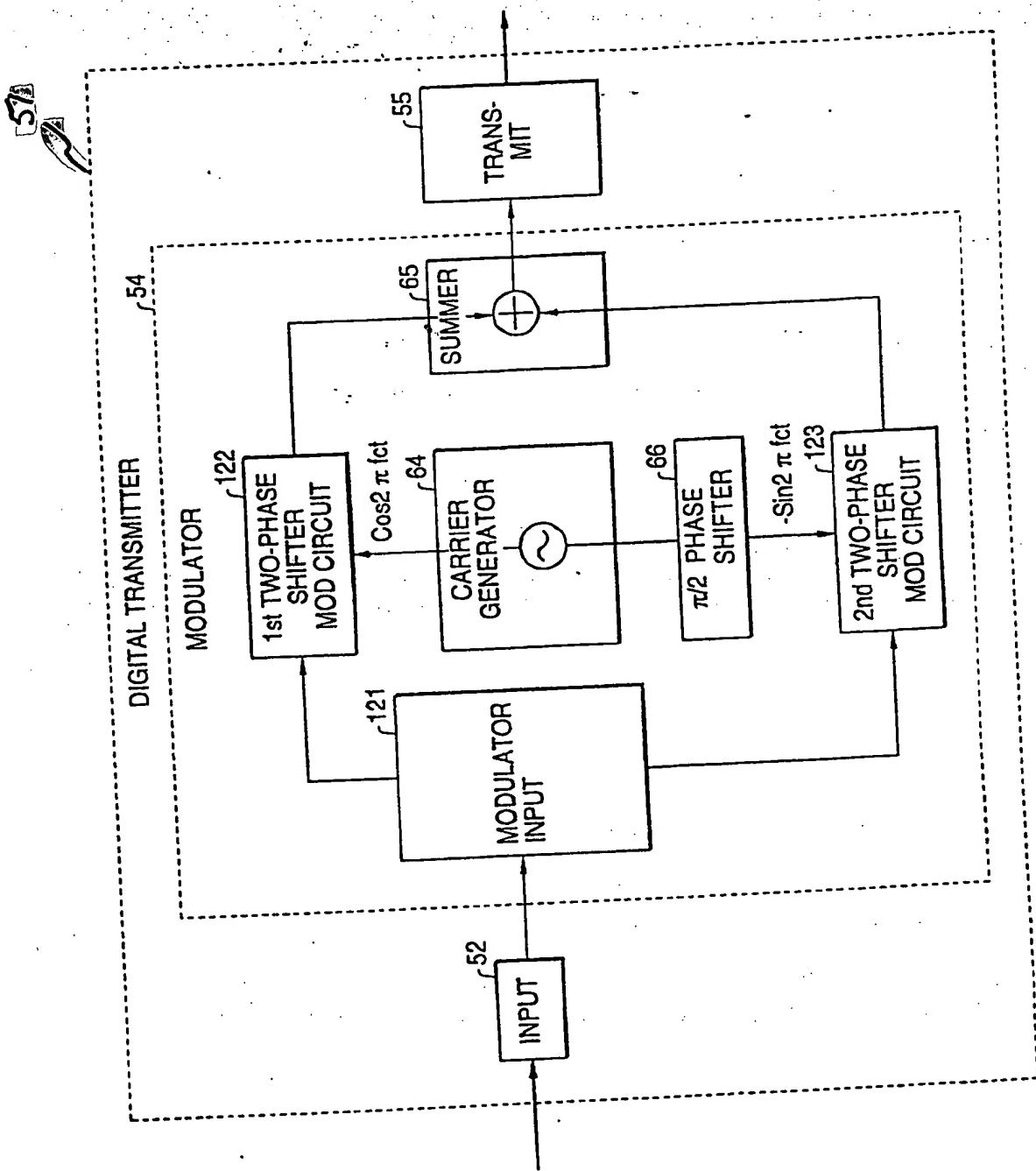


FIG. 17

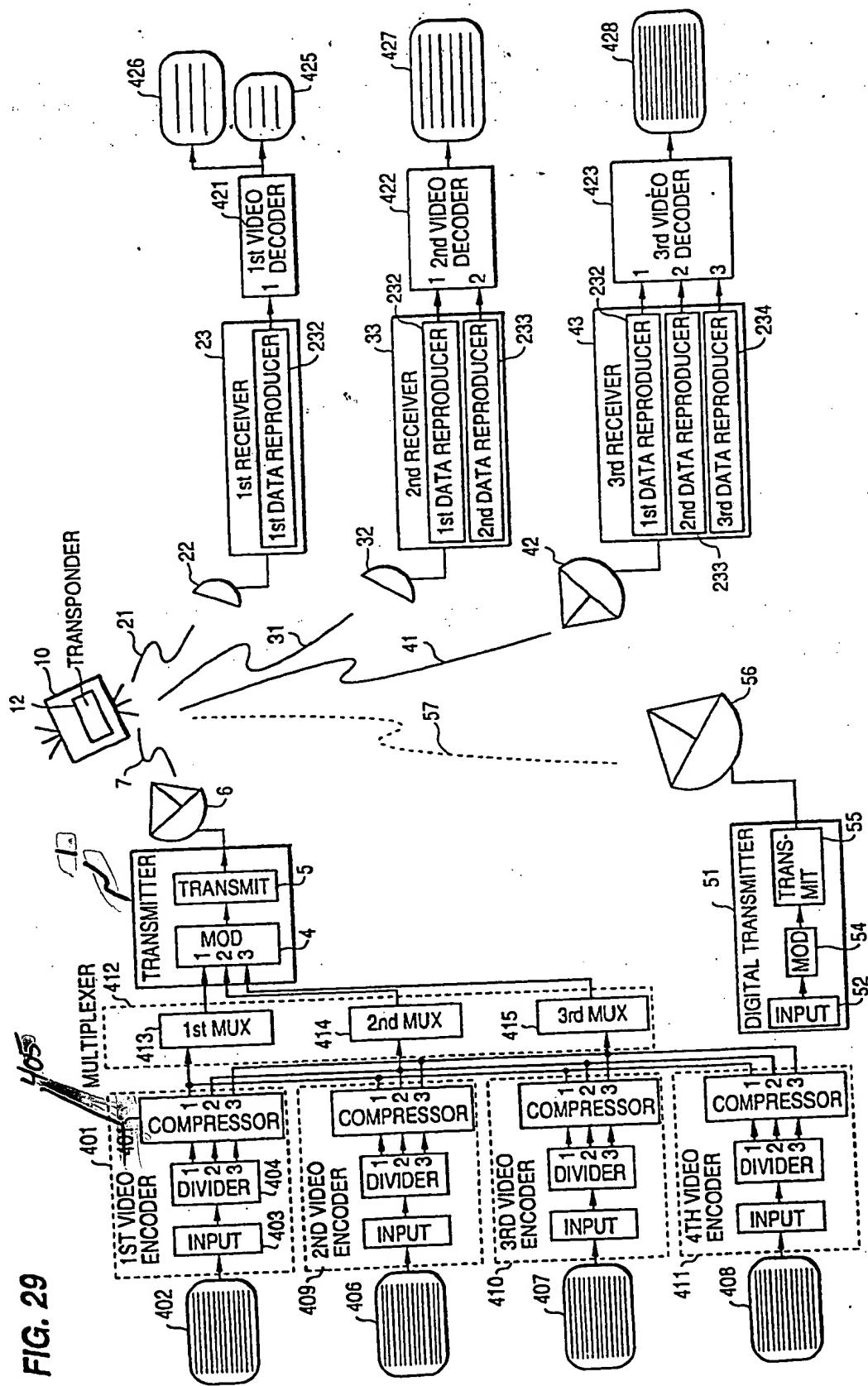
U.S. Patent

APR 24 2003

Feb. 4, 1997

Sheet 29 of 178

5,600,672



APR 24 2003

U.S. Patent

Feb. 4, 1997

Sheet 48 of 178

5,600,672

FIG. 48

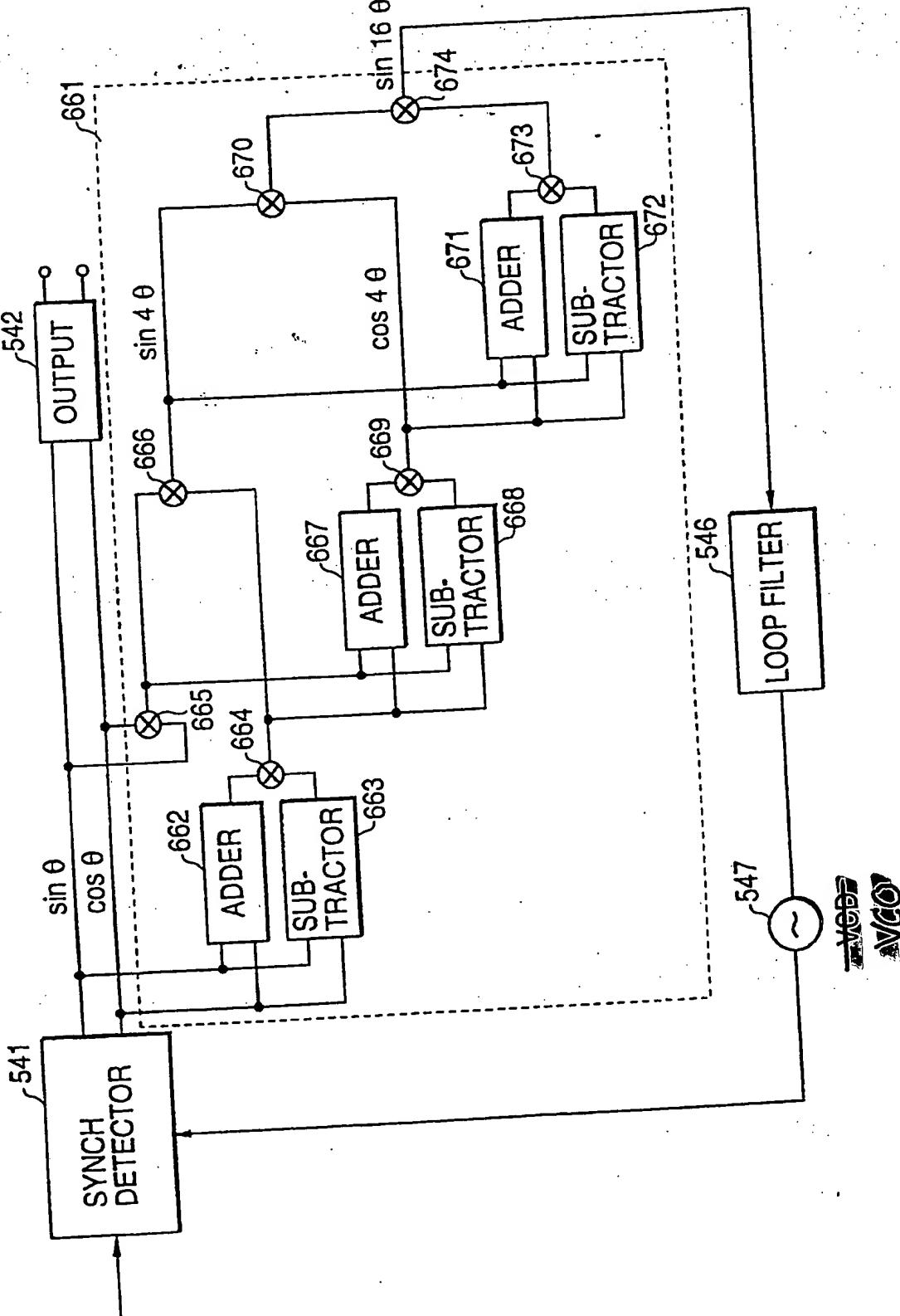
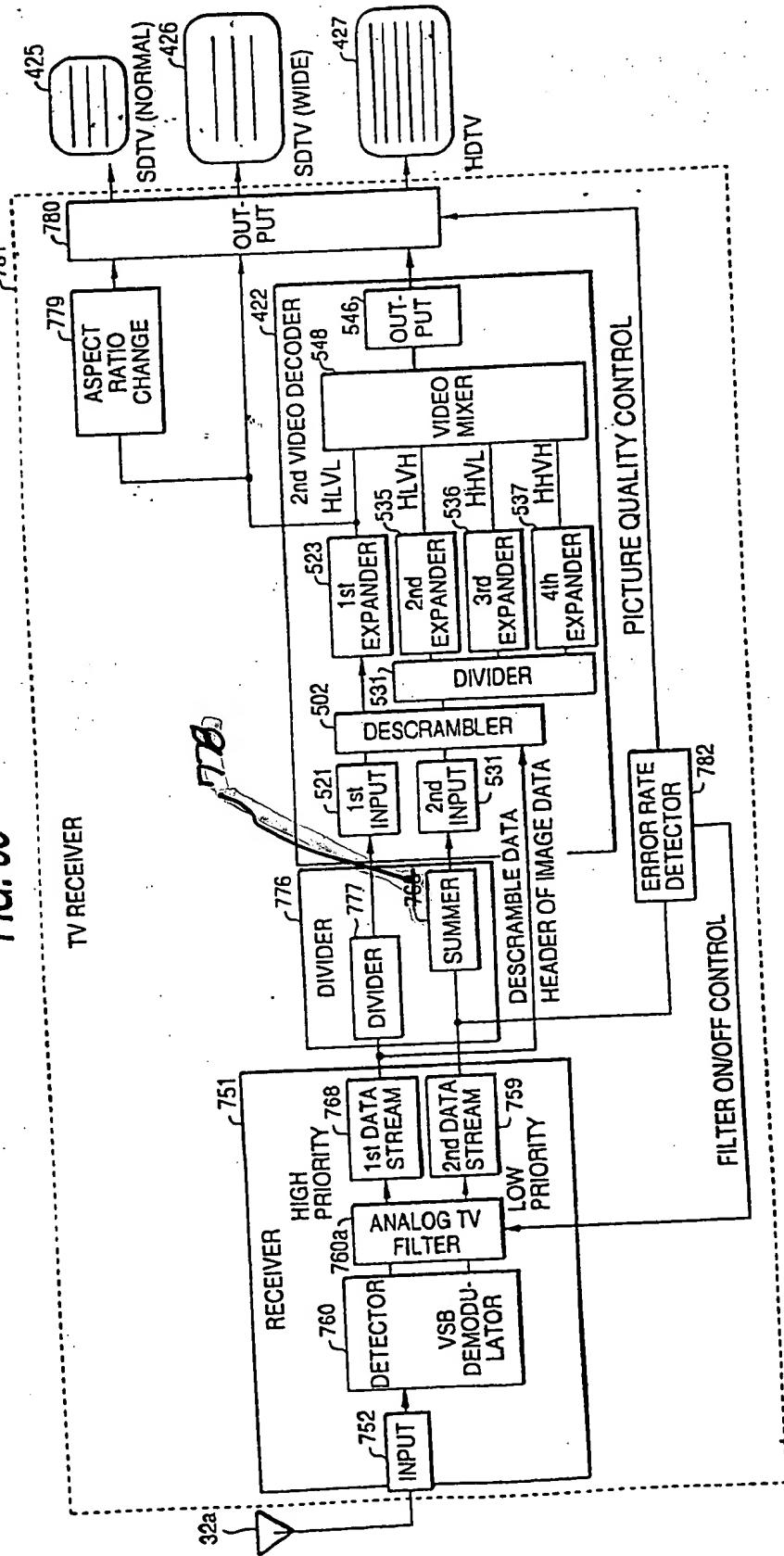




FIG. 65





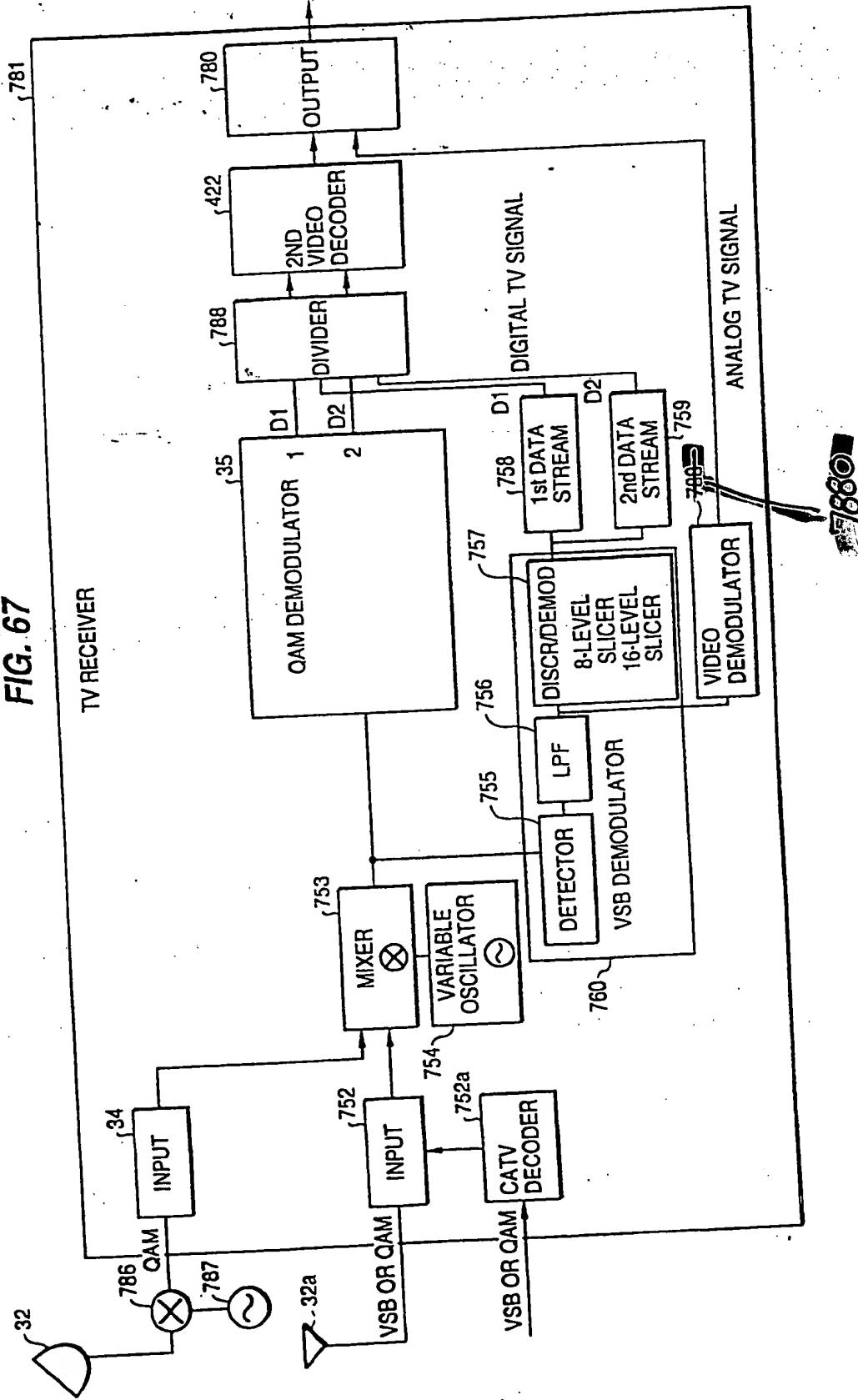
U.S. Patent

Feb. 4, 1997

Sheet 66 of 178

5,600,672

FIG. 67





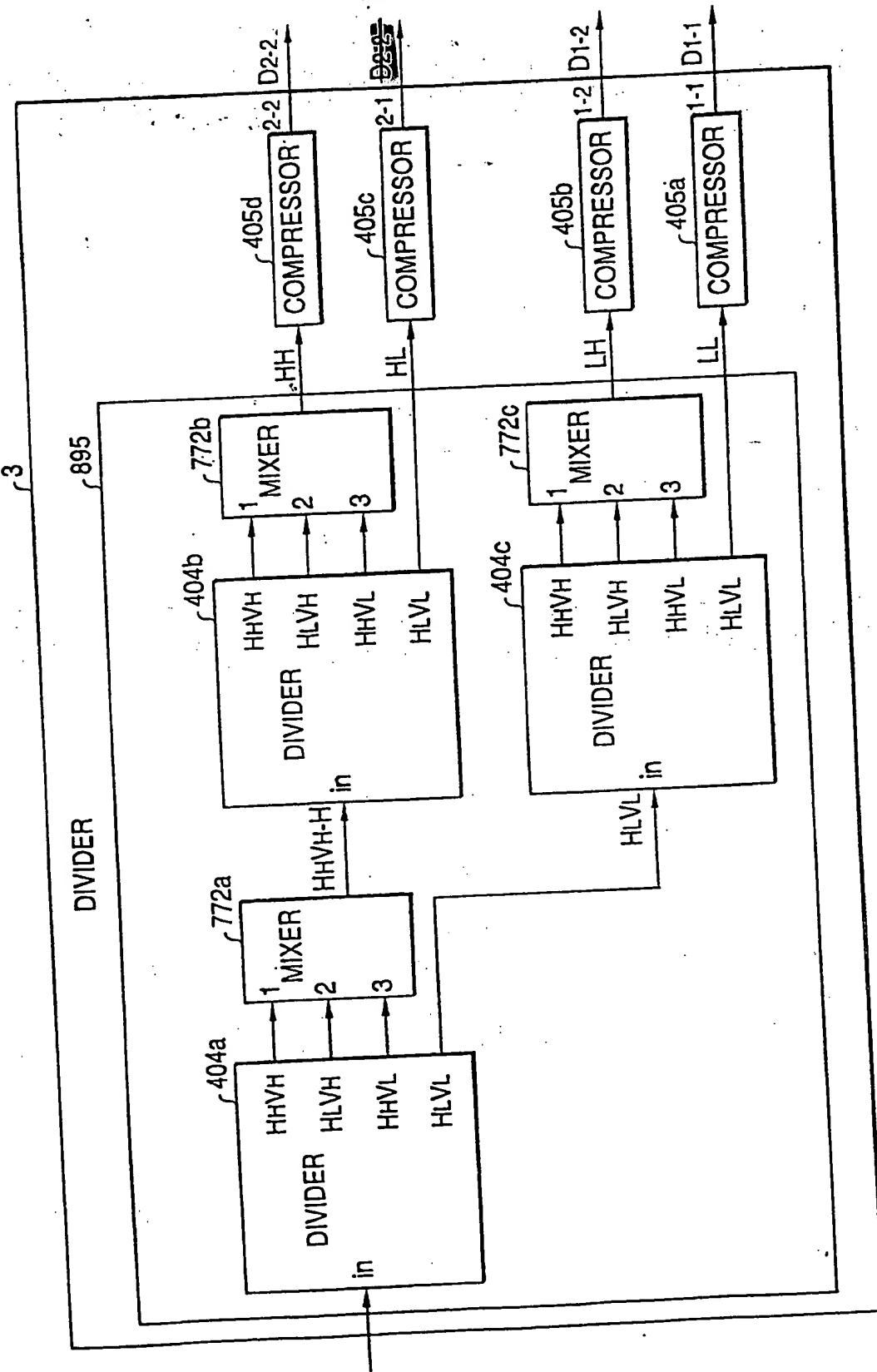
U.S. Patent

Feb. 4, 1997

5,600,672

Sheet 92 of 178

FIG. 93





U.S. Patent

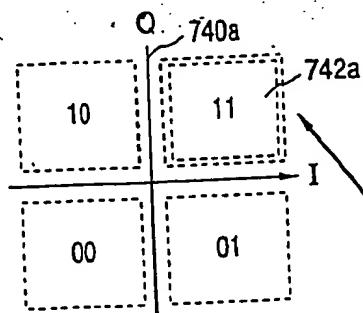
Feb. 4, 1997

Sheet 111 of 178

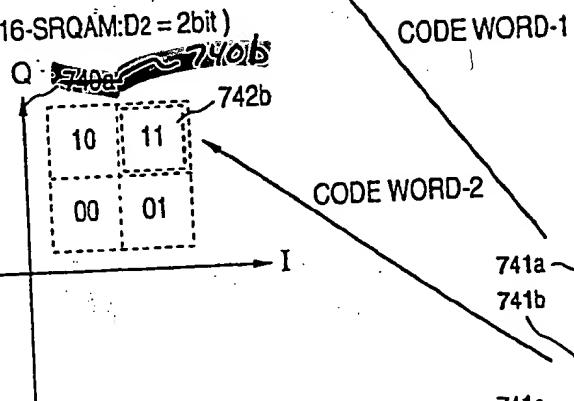
5,600,672

FIG. 112

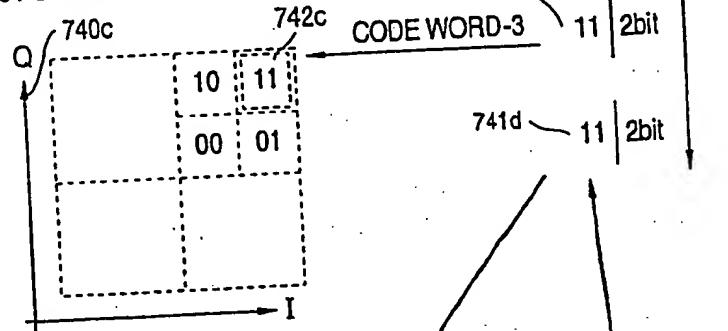
SUBCHANNEL-1 (SRQAM:D1 = 2bit)



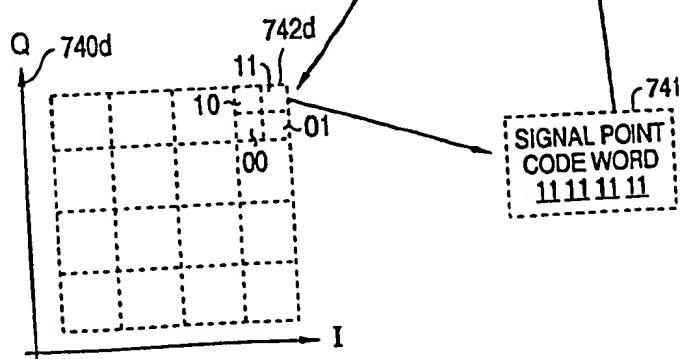
SUBCHANNEL-2 (16-SRQAM:D2 = 2bit)



SUBCHANNEL-3 (64-SRQAM:D3 = 2bit)



SUBCHANNEL-4 (256-SRQAM:D4 = 2bit)



**741**  
SIGNAL POINT  
CODE WORD  
11 11 11 11

741a ~ 11 | 2bit  
741b ~ 11 | 2bit  
741c ~ 11 | 2bit  
741d ~ 11 | 2bit  
8bit

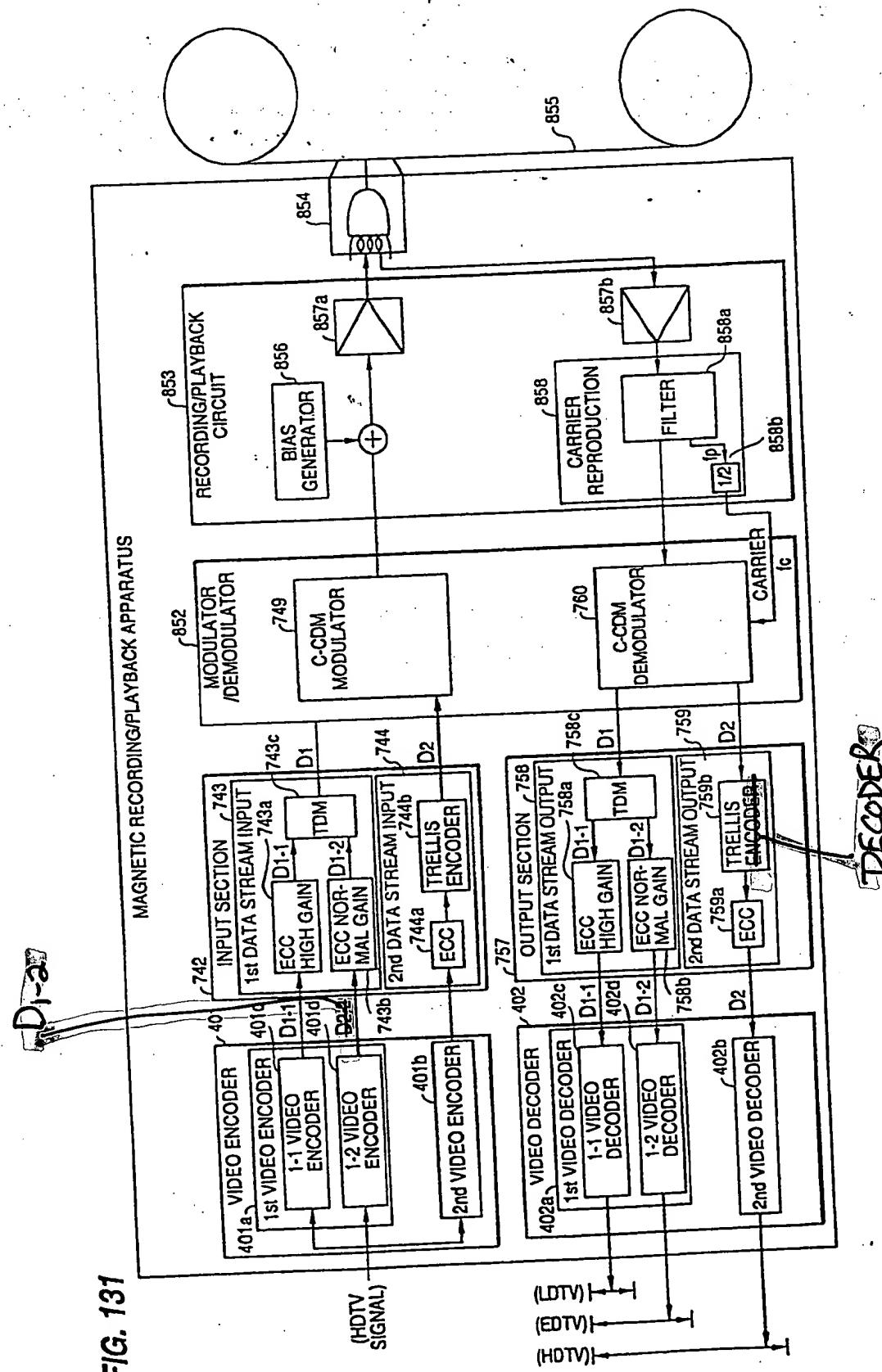
O  
APR 24 2003  
PATENT & TRADEMARK OFFICE  
U.S. Patent

Feb. 4, 1997

Sheet 130 of 178

5,600,672

**FIG. 131**





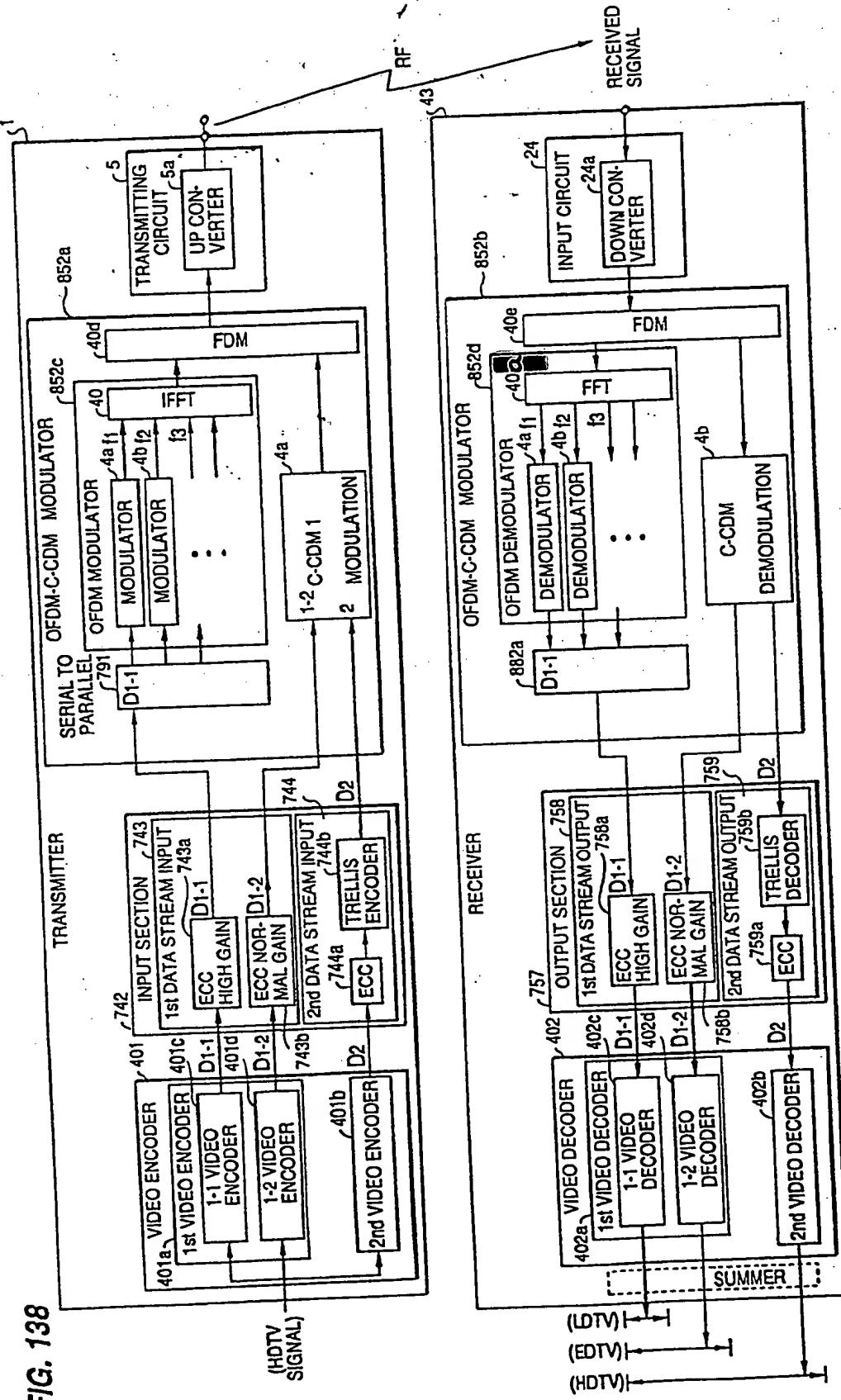
U.S. Patent

Feb. 4, 1997

Sheet 137 of 178

5,600,672

**FIG. 138**



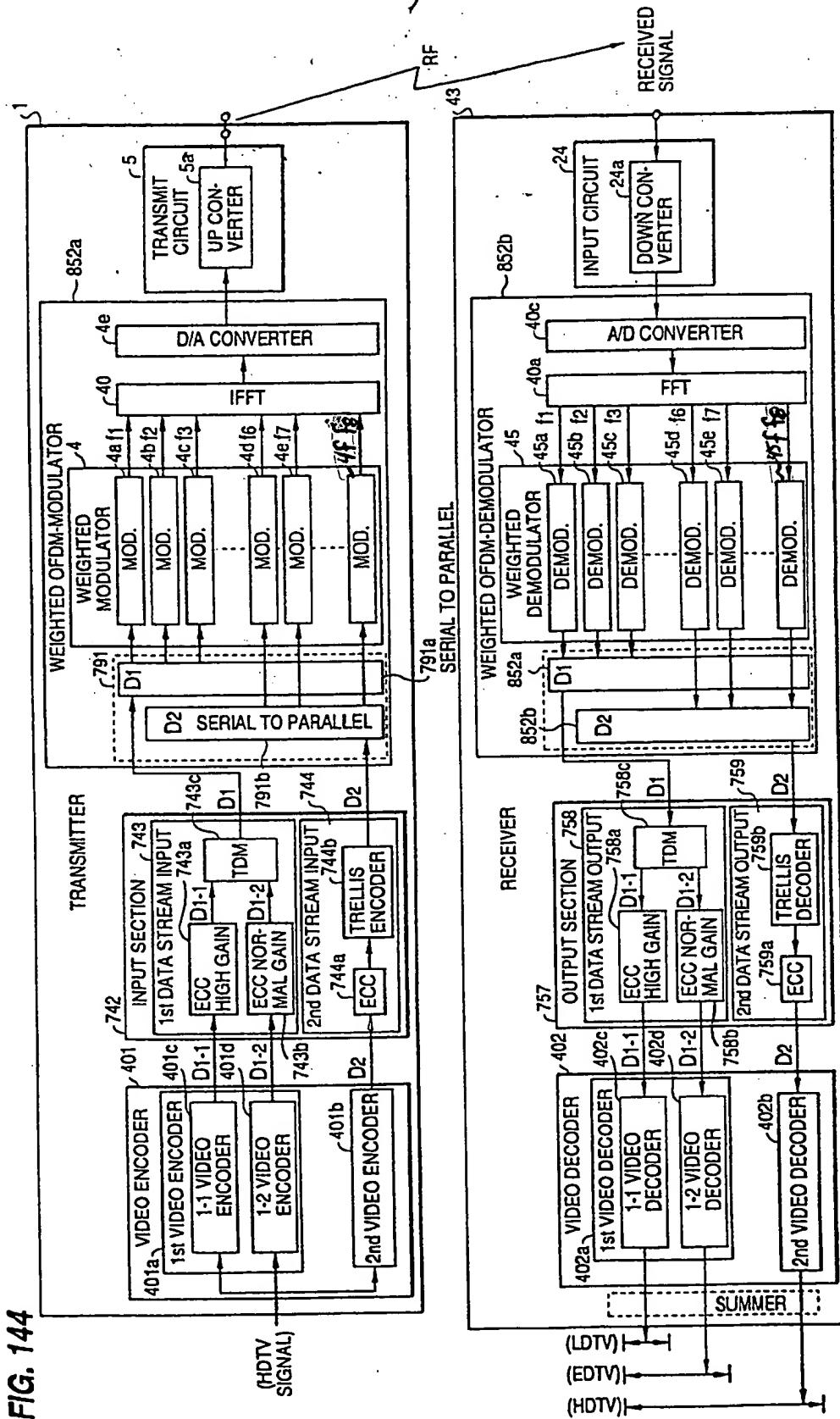
APR 24 2003  
U.S. Patent Office  
SEARCHED INDEXED  
SERIALIZED FILED

U.S. Patent

Feb. 4, 1997

Sheet 143 of 178

5,600,672



APR 24 2003

U.S. Patent

Feb. 4, 1997

Sheet 168 of 178

5,600,672

FIG. 169

COMPARISON OF REDUNDANCY

